

Application No. : 09/550,545
Filed : April 14, 2000
Amdt. Dated : December 9, 2004

AMENDMENTS TO THE CLAIMS

The listing of claims replaces all prior versions and listings of claims in the application. The listing of claims presents each claim with its respective status shown in parentheses. Only those claims being amended herein show their changes in highlighted form, i.e., insertions appear as underlined text (e.g., insertions) while deletions appear as strikethrough text (e.g., ~~deletions~~). All previously amended claims appear as clean text.

1. **(Currently Amended)** A music rendering system for transferring a music item between a computer device and a music renderer, comprising:

a music controller program code operative to be executed on the computer device for managing at least one music item, the music controller program code operative when executed to retrieve attribute information from a music renderer when the music renderer is coupled with the computer device, wherein the attribute information provides an indication of attributes of the music renderer ~~providing a pre-defined interface for connecting a device driver to the music controller~~ during the operation of the music controller program code, the music controller program code operative to change the data format or compression of the music item as a function of the retrieved attribute information;
and

~~at least one device driver that is in communication with the music controller via a pre-defined interface, the device driver~~ the music controller program code operative to transmit receiving and transmitting the changed music item to a music renderer.

2. **(Original)** The system of Claim 1, wherein the music item is a track of music.

3. **(Currently Amended)** The system of Claim 1, wherein the music items are ~~is~~ a set of tracks.

4. **(Original)** The system of Claim 1, additionally comprising an electronic music player for managing the music items, the electronic music player displaying a

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hierarchical graphical library tree that graphically classifies the music items into one or more sets, the electronic music player transmitting a selected set of music items to the music renderer upon a request from a user.

5. **(Currently Amended)** The system of Claim 4, wherein the music item is received from a remote server via a network, ~~electronic music player is integrated with the music controller.~~

6. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to predefined interface comprises an interface whereby the music controller can request the a device driver to provide a description of each of the storage objects that are supported by the device driver.

7. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to predefined interface comprises an interface whereby the music controller can request the a device driver to provide the storage capacity of the storage devices that are associated with the device driver.

8. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to request a predefined interface comprises an interface for requesting the device driver to reorder one or more music items that reside on the music renderer.

9. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to request a predefined interface comprises an interface for requesting the device driver to provide the number of tracks that are on the music renderer.

10. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to store predefined interface comprises an interface for storing artwork with respect to a selected track on the music renderer.

11. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to store predefined interface comprises an interface for storing credits with respect to a selected track on the music renderer.

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12. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to store predefined interface comprises an interface for storing lyrics with respect to a selected track on the music renderer.

13. **(Currently Amended)** The system of Claim 1, wherein the music controller program code operative to define predefined interface comprises an interface for defining a selected bit-rate with respect the music renderer, and to convert the music-renderer-controller converting any received music items to the selected bit-rate before transmitting the music items to the music renderer via the a device driver.

14. **(Currently Amended)** The system of Claim 1 additionally comprising the music controller program code operative to convert converting the music item from a first bit rate to a second bit rate.

15. **(Currently Amended)** An electronic device A music management system, comprising:

a plurality of nodes indicating music items item classifications;

an output device; and

a hierarchical graphical library tree that is displayed on the output device, the hierarchical graphical library tree graphically displaying the nodes, one or more of the nodes in classifying the music items into one or more sets, the hierarchical graphical library tree having a plurality of children nodes that relate to the node and/or one or more music track(s), each of the node in the plurality of nodes being represented by either a graphical image or text;

the graphical display on the output device of (a) a child node of the plurality of children nodes in the hierarchical graphical library tree, and/or (b) the music track information related to the child node, one or more of the nodes being movable or copyable from a first location where the child node and/or music track information indicates an association with one of the plurality of nodes in the hierarchical graphical library tree to a second location where the child node and/or music track information indicates an association with another of the plurality of nodes in the hierarchical graphical library tree.

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16. **(Currently Amended)** The electronic device music management system of Claim 15, wherein the hierarchical graphical library tree comprises at least a playlist node having one or more children nodes that each are respectively associated with playlists of music items.

17. **(Currently Amended)** The electronic device music management system of Claim 15, wherein the hierarchical graphical library tree comprises at least an artist node having one or more children nodes that are each respectively associated with a selected author

18. **(Currently Amended)** The electronic device music management system of Claim 15, wherein the hierarchical graphical library tree comprises at least a genre node having one or more children nodes that are each respectively associated with a selected genre.

19. **(Currently Amended)** The electronic device music management system of Claim 15, wherein the hierarchical graphical library tree comprises at least an album node having one or more children nodes that are each respectively associated with a selected album.

20. **(Currently Amended)** A method of transferring music items between a manufacturing a system for integrating one or more music renderer and renders with an electronic music player comprising an output device, the method comprising:

storing a music item in a memory of the providing an electronic music player in a first predetermined format; and

coupling the providing a music renderer controller that has a plurality of pre-defined interfaces for communicating with the electronic music player; renderers, the pre-defined interfaces including an interface for writing a music item to the music renderers and for

retrieving attribute information about the music renderer;

displaying on the output device, as a result of the retrieved attribute information, data referencing the music renderer;

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providing an indication to reformat the music item into a second predetermined format in accordance with the retrieved attribute information;
reformatting the music item into a second predetermined format; and
transferring the reformatted music item to renderers, the pre-defined interfaces adapted to be dynamically linked with a device driver that is associated with a selected one of the music renderers renderer.

21. **(Currently Amended)** The method of Claim 20, further comprising reformatting the music item into a second predetermined format by changing the encoding of the music item, changing the rights associated with the music item, or changing the data format of the music item. ~~wherein the electronic music player and the music renderer controller and integrated together into a single executable object.~~

22. The method of Claim 20, wherein said attribute information about the music renderer is retrieved from the coupled music renderer. ~~A method of transmitting a music item from a computer to a music renderer, the method comprising:~~

~~executing a program that provides a device integration application programming interface;~~

~~dynamically linking a device driver to the program via the device integration application interface; and~~

~~requesting, via the device integration application interface, the device driver to store a selected music item on the music renderer.~~

23.-24. **(Cancelled)**

25. **(New)** The electronic device of Claim 15, wherein the child node is movable by selecting and dragging the child node.

26. **(New)** The electronic device of Claim 15, wherein the child node corresponds to a music track stored on a CD.

27. **(New)** The electronic device of Claim 15, wherein the music track information corresponds to a music track stored in a system memory in a compressed data format.

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28. **(New)** The method of Claim 20 further comprising receiving the music item in the first predetermined format from a remotely located server via a network.

29. **(New)** A method for managing a music system with an electronic device having an output device, the method comprising:

- indicating music item classifications with a plurality of nodes with the output device;

- displaying the nodes on the output device with a hierarchical graphical library tree;

- displaying adjacent one or more of the nodes in the hierarchical graphical library tree a plurality of children nodes that relate to the node and/or one or more music track(s);

- displaying at a location on the output device each node in the plurality of nodes with either a graphical image or text symbols;

- displaying on the output device one of the children nodes in the plurality of children nodes in the hierarchical graphical library tree, and/or the music track information related to at least one of the children node; and

- moving or copying one of the children node(s) and/or music track information from a first location on the output device where at least one of the children node(s) and/or music track information indicates an association with one of the plurality of nodes in the hierarchical graphical library tree to a second location where the at least one of the children node(s) and/or music track information indicates an association with another of the plurality of nodes in the hierarchical graphical library tree.

30. **(New)** The method of Claim 29, wherein the hierarchical graphical library tree comprises at least a playlist node having one or more children nodes that each are respectively associated with playlists of music items.

31. **(New)** The method of Claim 29, wherein the hierarchical graphical library tree comprises at least an artist node having one or more children nodes that are each respectively associated with a selected author.

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32. **(New)** The method of Claim 29, wherein the hierarchical graphical library tree comprises at least a genre node having one or more children nodes that are each respectively associated with a selected genre.

33. **(New)** The method of Claim 29, wherein the hierarchical graphical library tree comprises at least an album node having one or more children nodes that are each respectively associated with a selected album.

34. **(New)** The method of Claim 29, further comprising moving the children nodes by selecting and dragging the children nodes.

35. **(New)** The method of Claim 29, wherein at least one of the children nodes corresponds to a music track stored on a CD.

36. **(New)** The method of Claim 29, wherein the music track information corresponds to a music track stored in a system memory in a compressed data format.

37. **(New)** A computer program product for use in a system having at least one client electronic device and one network server coupled to said network environment, the computer program product comprising:

a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:

computer readable program code for causing said client electronic device to display on said client electronic device music item classifications with a plurality of nodes using either a graphical image or text symbols;

computer readable program code for causing said client electronic device to display on said client electronic device with a hierarchical graphical library tree the plurality of nodes and a plurality of children nodes, wherein each of the plurality of children nodes indicates a music track accessible by the client electronic device and a placement of each of the plurality of children nodes within the hierarchical graphical library tree indicates an association with one of the plurality of nodes; and

computer readable program code for causing said client electronic device to move or copy the display of at least one of the plurality of

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children nodes from a first location, where the at least one of the plurality of children nodes indicates an association with one of the plurality of nodes in the hierarchical graphical library tree, to a second location where the at least one of the plurality of children nodes indicates an association with another of the plurality of nodes in the hierarchical graphical library tree.

38. **(New)** The computer program product of Claim 37, wherein the computer readable program code causes said client electronic device to display on the said client electronic device the hierarchical graphical library tree comprising at least a playlist node having one or more children nodes that each are respectively associated with playlists of music items.

39. **(New)** The computer program product of Claim 37, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least an artist node having one or more children nodes that are each respectively associated with a selected author.

40. **(New)** The computer program product of Claim 37, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least a genre node having one or more children nodes that are each respectively associated with a selected genre.

41. **(New)** The computer program product of Claim 37, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least an album node having one or more children nodes that are each respectively associated with a selected album.

42. **(New)** The computer program product of Claim 37, wherein the plurality of children nodes correspond to music tracks stored on a CD.

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43. **(New)** The computer program product of Claim 37, further comprising computer readable program code for causing said client electronic device to receive an input signal to indicate a change in the association of one of the plurality of children nodes, and wherein the computer readable program code causes said client electronic device to move or copy the display in response thereto.

44. **(New)** The computer program product of Claim 43, wherein the input signal corresponds to a user having selected and dragged one of the plurality of children nodes.

45. **(New)** A computer program product for use in a system having at least one client electronic device and one network server coupled to said network environment, the computer program product comprising:

- a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprising:

- computer readable program code for causing said client electronic device to display on said client electronic device music item classifications with a plurality of nodes using either a graphical image or text symbols;

- computer readable program code for causing said client electronic device to display on said client electronic device with a hierarchical graphical library tree the plurality of nodes and a plurality of children nodes, wherein each of the plurality of children nodes relates to one or more music track(s) accessible by the client electronic device and a placement of each of the plurality of children nodes within the hierarchical graphical library tree indicates an association with one of the plurality of nodes;

- computer readable program code for causing said client electronic device to receive a signal indicating selection of a first child node of the plurality of children nodes and to display on said client electronic device, upon selection of the first child node of the plurality of children nodes, one

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or more music track(s) associated with the first child node of the plurality of children nodes and accessible by the client electronic device; and

computer readable program code for causing said client electronic device to change the association of at least one of the plurality of music tracks from a first child node of the plurality of children nodes to a second child node of the plurality of children nodes; and

computer readable program code for causing said client electronic device to receive a signal indicating selection of the second child node of a plurality of children nodes and to display on said client electronic device, upon selection of the second child node of the plurality of children nodes, the at least one of the plurality of music track(s).

46. **(New)** The computer program product of Claim 45, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least a playlist node having one or more children nodes that each are respectively associated with playlists of music items.

47. **(New)** The computer program product of Claim 45, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least an artist node having one or more children nodes that are each respectively associated with a selected author.

48. **(New)** The computer program product of Claim 45, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least a genre node having one or more children nodes that are each respectively associated with a selected genre.

49. **(New)** The computer program product of Claim 45, wherein the computer readable program code causes said client electronic device to display on said client electronic device the hierarchical graphical library tree comprising at least an album

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node having one or more children nodes that are each respectively associated with a selected album.

50. **(New)** The computer program product of Claim 45, wherein the plurality of children nodes correspond to music tracks stored on a CD.

51. **(New)** The computer program product of Claim 45, further comprising computer readable program code for causing said client electronic device to receive an input signal to indicate a change in the association of one of the music tracks, and wherein the computer readable program code causes said client electronic device to move or copy the display of one of the music tracks in response thereto.

52. **(New)** The computer program product of Claim 51, wherein the input signal corresponds to a user having selected and dragged one of the music tracks.